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## ABSTRACT OF THE DISCLOSURE

## METHOD AND SYSTEM FOR NUCLEIC ACID SEQUENCING

A method of nucleic acid sequencing comprising the steps (a) amplifying a nucleic acid sample to produce an amplified DNA product; (b) extending a sequencing primer bound to the DNA product in the presence of terminating nucleotide analogs to produce a collection of labeled nucleic acid products; (c) detecting a total amount of label present in the collection to produce a measurement; and (d) combining a plurality of measurements to determine DNA sequence information about the sample. A system for nucleic acid sequencing which uses terminating nucleotide analogs to quantitatively determine fragment length and sequence information.